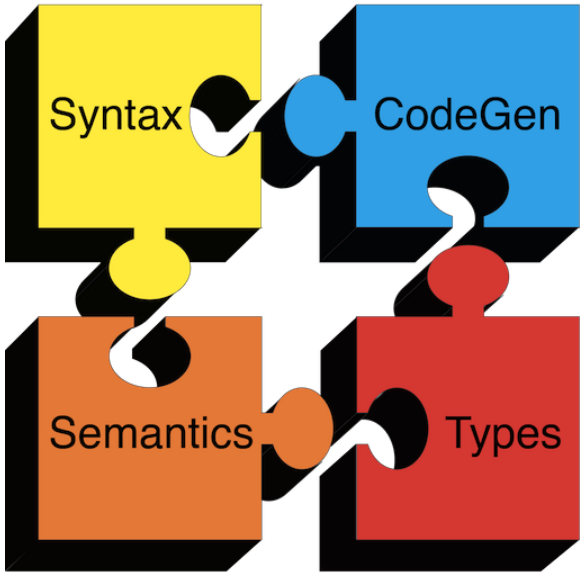

Compilers

Introduction

Intro to Compilers

- Compilers

- Interpreters

- 1954 IBM develops the 704
  - Successor to the 701

- “Speedcoding”

John Backus

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- FORTRAN I

John Backus

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- The first compiler
  - Huge impact on computer science
- Led to an enormous body of theoretical work
- Modern compilers preserve the outline of FORTRAN I

Intro to Compilers

1. Lexical Analysis
2. Parsing
3. Semantic Analysis
4. Optimization
5. Code Generation